



ELECTRICAL CURRENTS

Newsletter from the Office of the Chief Electrical Inspector

Ron Fuller, Chief Electrical Inspector

Vol. 8 No. 2

February 2005

● Electrical Board Recruitment – Applications Due Before March 31, 2005

The Electrical Advisory Board has fourteen (14) members appointed by the Governor for a regular 4-year term. Three Electrical Board appointments are scheduled to expire in July 2005. These positions are designated to represent factions of the electrical industry as follows: one certified electrician, one combination RCDD certified/electrical engineer, and one telecommunications worker.

Interested individuals, with appropriate credentials, may apply. Incumbent members may apply for reappointment to their positions. Applications must be made using the *Application for Gubernatorial Appointment to a Board or Commission* form. Requests for copies of the application and any questions may be directed to Angie Wharton at (360) 902-5259 or downloaded at

<http://www.governor.wa.gov/boards/application.doc>

Applicants must submit a letter of interest, completed application form (above), and current resume to the Chief Electrical Inspector, PO Box 44460, Olympia, WA 98504-4460, **no later than March 31, 2005**. Applicants should specify the position sought and be prepared to demonstrate support from the group(s) in the electrical industry that the position represents.

● Free Code Update/RCW – WAC Continuing Education Classes

The department still has some space available in the following free CEU classes:

PART 1: 4 hours Code Update & 4 hours RCW-WAC	PART 2: 8 hours Code Update
One Session remaining: 15-Feb Spokane , E 1411 Mission, Avista Bldg. Auditorium	8-Mar Moses Lake , 3000 W Marina Dr, Best Western Inn 9-Mar Spokane , E 1411 Mission, Avista Bldg. Auditorium 17-Mar Kennewick , 1101 N Columbia Ctr Blvd, Red Lion

If you are interested in attending these classes, you may apply via email to ElectricalProgram@lni.wa.gov

● IMPORTANT CHANGES IN THE ELECTRICAL PERMIT APPLICATION PROCESS

The L&I Specialty Compliance Services division upgraded its permitting system software on January 19, 2005. This created some modifications to the way we do business with our customers. If you use the online permitting systems EIRS and iPEP, there are no changes to your systems. The following changes are for all other customers:

Purchasing permits:

- The pre-printed numbers on the old permit application form will be meaningless for permits that are purchased after January 19, 2005. If you post a copy of the old form on the jobsite, our staff will not be able to locate that permit in our system using the pre-printed number on the form.
- The new system assigns the permit number. This will be the only number usable to contact the department regarding your electrical permit. This number will begin with "EP" for electrical permits. Our field staff will issue the permit number after they process your application.
- The new permit application form is multiple pages. A **fee worksheet must be completed** as a part of each application. The new form is available online at the Electrical Forms and Publication page at: <http://www.lni.wa.gov/TradesLicensing/Electrical/FormPub/Forms>
- We will continue to accept the old forms until April 1, 2005.
- You do not have a permit and are not authorized to begin work until you have confirmation from the department that your application has been processed and a valid "EP" number is issued as described above.

Requesting inspections:

- If your permit is not been paid for in full we will not be able to request an inspection for your job. Make sure you have all your fee dues paid in full.
- If you use the telephone, voice mail system, or fax to request inspections, make sure you leave the new permit number (beginning with "EP" and issued by L&I), the address of the inspection, your name, and a phone number to contact you.

Please Note: If you fax in a permit application multiple times (or to multiple offices), it will be entered and assigned a unique **EP** number each time it is received. You will be charged a separate permit fee for each application received and processed. You will then have to request a refund and will be subject to a refund processing fee and possible inspection delays.

● **Preview – 2005 NEC Code Changes. Classified Locations.**

Code Panel 14 deleted language in NEC 511-Commercial Garages, Repair and Storage and NEC-514-Motor Fuel Dispensing Facilities that stated the area below the surface of a Class 1, Division 1 or Division 2 location was classified the same as the area above. Since the lack of oxygen in the earth normally makes it impossible to achieve an ignitable concentration of explosive vapor, the earth below Class 1, Division 1 or Division 2 locations does not conform to the definition of classified locations found in NEC 500.5.

This is a technical correction consistent with the Code style, but **do not** make the assumption that unclassified wiring methods can now be used. The Code Panel **left all the requirements** for underground wiring methods and conduit seals intact in NEC 511.9, NEC 501.10, NEC 501.15, and NEC 514.8.

The Code Panel recognized that in some circumstances, such as a void in the earth like an electrical raceway, that there is a capacity to have a hazardous mixture of oxygen and flammable vapor from spills or leakage on the surface above.

● **Sizing External Disconnects For Unit HVAC/R Equipment**

If the thermal protection built into an air conditioning unit (i.e. hermetic refrigerant motor-compressor) permits continuous current flow above 156% of the equipment rated-load amperes (RLA), the branch-circuit current rating is always marked on the equipment nameplate. The branch-circuit current value is always equal or greater than the RLA. The branch-circuit current rating for a motor-compressor must be used instead of the RLA in determining appropriate ratings for branch-circuit conductors and externally mounted controllers and disconnecting means.

Multi-motor equipment or combinations of a motor(s) and other loads, supplied from a single branch-circuit, will be marked with the required supply-circuit minimum circuit ampacity (MCA) on or adjacent to the equipment nameplate. As the name indicates, minimum circuit ampacity is used to determine the required minimum rating of the branch circuit conductors.

Branch-circuit selection current and MCA are not interchangeable. If equipment is not marked with branch-circuit selection current then you must use the rated-load amperes (RLA) marked on the equipment nameplate (not MCA) to perform the calculations in NEC 440.12 when determining the appropriate rating and interrupting capacity for external disconnecting means.

● **Underground Low-Voltage Landscape Lighting Requirements**

We have been asked to clarify the intent of the rules relating to licensing, certification, allowable exemptions, and permits and inspections for the installation of underground low-voltage landscape lighting. WAC 296-46B-925(7) establishes a threshold for exemption for a specific type of this work and is prefaced with the qualifier "*The electrical failure of these systems does not inherently or functionally compromise safety to life or property.*" This quality is mandatory for consideration for this exemption.

This rule's format was made general enough to include thermocouple derived circuits and low-voltage systems for residential vacuum systems, underground landscape sprinkler control, and residential garage door controls, along with underground low-voltage landscape lighting. (The Class 2 power source for these other systems is always integrated into the listed controller equipment.) It was the intent of the rule to allow "exempt" installation of Class 2, pre-assembled, low-voltage lighting assemblies listed for use underground. These packaged Class 2 low-voltage lighting systems with fixed numbers of luminaires can be safely installed by persons with no electrical installation knowledge or skills. Most of these systems are completely pre-wired and only need to be "planted" then plugged in. Some may allow change of location of the luminaire(s) on the conductors pre-wired to the Class 2 transformer. The Class 2, 100 VA limitations of these packaged assemblies satisfies the above safety parameter of the rule.

When an installation involves field assembly of individual lighting fixtures on properly sized conductors and selection of an appropriate Class 1 transformer or power source to supply the calculated loads, then the inherent safety of the listed Class 2 system is nonexistent. The installation must be done by licensed

Electrical Section Internet Address: www.Lni.wa.gov/TradesLicensing/electrical Page 2 of 6

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electrical contractors and certified electricians. Work in this scope is only included for 01-general journeyman, 02-residential specialty, or 06-limited energy specialty contractors and electricians. The 06-limited energy specialty is further restricted to Class 1 power-limited circuits 1000 VA, 30 volts or less.

The rules have an exemption from licensing for firms that install certain cord and plug connected equipment in WAC 296-46B-925(9) with the qualifier that *"The equipment must be a single manufactured unit that does not require any electrical field assembly except for the installation of the plug and cord."* Field installation of low-voltage lighting systems does not qualify for this exemption, even if the power source happens to be cord and plug connected. There is no exemption from permits and inspection for this work in WAC 296-46B-925(9). Field assembled underground low-voltage lighting systems require electrical work permits and inspections. Licensing, permits and inspections are not required for the specific work exempt under WAC 296-46B-925(7).

● Luminaires Near A Bathtub And In Shower Areas

NEC 410.4(D) Creates a restricted zone for cord connected luminaires, hanging luminaires, light tracks, pendants and ceiling suspended paddle fans in and near bathtubs and shower areas. This zone extends 3 feet horizontally and 8 feet vertically from the top of the bathtub rim or shower threshold. This limitation does not apply to recessed or flush mounted fixtures.

Although a flush mounted fixture may meet NEC requirements inside the restricted zone it must still meet the requirements of WAC 296-46B-410. This zone starts at 5 foot vertically from the edge of the waterline of a bathtub and extends as a 5 foot radius to the floor of the bathroom. Any fixture in this zone is required to be an enclosed luminaire and must be ground fault circuit interruption protected.

● ELECTRICAL CURRENTS Article Recommendations And Feedback

The monthly Electrical Currents articles are an efficient way for the department to inform electrical industry stakeholders about department policies and code interpretations. The newsletter has been issued monthly since January 1998 addressing electrical installations, licensing/certification, and industry safety concerns. Most of the articles written are usually derived from problems that have occurred in the field service locations and must be resolved by the Chief Electrical Inspector. We would like to have feedback through E-mail, on the Electrical Currents newsletter, and any technical issues or ideas that our customers would like to see addressed. Although all suggestions will not merit an article, all are welcome. Please E-mail your suggestion to: ElectricalProgram@lni.wa.gov.

● Electrical Question of the Month

This Month's Question: A 277/480V, 3-phase service will supply a new 20 HP, 460V, 3-phase, intermittent duty (5-minute rated) motor with a nameplate rating of 22.41 FLA. What is the calculated load in VA for this motor that will be added to the building service? Choose the best answer from the following choices: **A)** 15829, **B)** 18623, **C)** 22437, **D)** 28046.

Last Month's Question: In a 240 volt system the current draw on the feeder conductors is 110 amps. The one way length of the conductors feeding the load is 226 feet long and the wire size is stranded 1/0 aluminum USE. Does this installation comply with the minimum 3% voltage drop for feeders recommended by the NEC? **A)** Yes, **B)** No. The answer is: **B)** No. $[3\% \times 240 \text{ volts} = 7.2 \text{ volts maximum dropped for a compliant feeder. } VD = (2 \times K \times I \times L) \div \text{wire circular mils} = (2 \times 21.2 \times 110 \times 226) \div 105600 \text{ circular mils} = 9.98 \text{ volts.}]$

● Quarterly Compliance Report Text

This report lists the final judgments for: no electrical contractor's license, hiring uncertified electricians, no electrician certification, and failure to obtain necessary electrical work permits. The report is also posted on the Electrical Program website. The following firms and persons received a final judgment during the 4th quarter of 2004. A final judgment means that all rights of appeal have been exhausted and a penalty is due or has been paid.

Final Judgments of Electrical Laws For the 4th quarter of 2004

Violation - No Electrical Contractor's License	Violator	# of Violations	Penalty
Region 1 - North Puget Sound			
BROCK, JULIE, 227TH AVE CT E, BUCKLEY, WA		1	\$ 500

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COHN, LEONARD, SHARON DR, EVERETT, WA	1	\$ 500
DICKMAN, KEN M, 16TH ST, ANACORTES, WA	1	\$ 500
HEWSON, ALAN D, CALHOUN RD, MONROE, WA	1	\$ 500
J T CONSTRUCTION MGMT INC, NE 167TH ST, WOODINVILLE, WA	2	\$ 1,000
JIMMY Z INSTALLERS, 22ND AVE SW, SEATTLE, WA	1	\$ 500
MANIBUSAN, THOMAS J, GROUSE CIRCLE, FERNDALE, WA	1	\$ 500
PRO-TEL SERVICES, SW GRIENT JES LN, OAK HARBOR, WA	1	\$ 500
SIGN PRO, STEWART RD STE, MOUNT VERNON, WA	1	\$ 500
WHITE, BRYCE L, PO BOX, STARTUP, WA	1	\$ 500
WYSOCKI, JEFF, 302ND DR SE, SULTAN, WA	1	\$ 500
Region 2 - King County		
DOCTOR ELECTRIC, S 177TH PL, BURIEN, WA	2	\$ 1,000
HADDAD, JOSEPH, NE 4TH PL, SAMMAMISH, WA	1	\$ 500
JACKSON, NELS F, 228TH AVE SE, MAPLE VALLEY, WA	1	\$ 500
JOHNSON, JOSEPH, 8TH AVE SW, SEATTLE, WA	1	\$ 500
MORIYAMA, KATSUICHIRO, 79TH AVE W, EDMONDS, WA	1	\$ 500
ROCKY MOUNTAIN ALARM, WEST 4100 SOUTH, SALT LAKE CITY, UT	1	\$ 500
SUNLAND CUSTOM HOMES, 105 AVE SW, VASHON, WA	1	\$ 500
Region 3 - Pierce & Kitsap County & Olympic Peninsula		
BOWMAN, JASON M, 198TH AVE SE, KENT, WA	1	\$ 500
COX, CHARLES V, S THOMPSON AVE, TACOMA, WA	2	\$ 1,000
RHINEHART, DUSTY LEON, 230TH AVE E, ORTING, WA	1	\$ 500
YORK ENTERPRIZES, NORTH 30TH ST, TACOMA, WA	1	\$ 500
Region 4 - SW Washington		
BROTHER SIGN INC, 104TH ST CT S, LAKEWOOD, WA	1	\$ 1,500
CASTLE ROCK ELECTRIC INC, CHICORY CT, NEWHALL, CA	1	\$ 500
CI CONSULTING, 20TH ST, WASHOUGAL, WA	1	\$ 500
JOHNSON'S HEATING & A/C INC, PO BOX, KALAMA, WA	1	\$ 500
PFAHL, TIMOTHY M, N. 49TH STREET, SEATTLE, WA	1	\$ 500
RUSSELL, DAVE, SE 9TH, OLYMPIA, WA	1	\$ 500
S.M.C.I, 100TH ST. SW, LAKEWOOD, WA	1	\$ 500
SHORT, DAVID, 10TH STREET, BREMERTON, WA	1	\$ 500
SYPNYA, VLADIMIR, SE 175TH AVE, WASHOUGAL, WA	1	\$ 500
TRI CITY ELECTRIC, S GRIBBLE, CANBY, OR	1	\$ 500
Region 5 - Central Washington		
BOUFFIOU, GARY C, 25TH, KENNEWICK, WA	1	\$ 500
DAVE SIMMONS CONSTRUCTION INC, KILLMORE RD, ELLENSBURG, WA	1	\$ 500
PREFERRED HEATING & AC INC, PO BOX, BENTON CITY, WA	1	\$ 500
SMITH, MARK, PO BOX, WALLA WALLA, WA	1	\$ 500
Region 6 - Eastern Washington		
AUDIO VIDEO INOVATIONS, S GLENBROOK CT, GREENACRES, WA	1	\$ 500
BLINDAUER, WILLIAM, LACROSSE, SPOKANE, WA	1	\$ 500
BRITTON, JOHN, AZTEC LANE, CHENEY, WA	1	\$ 500
BYUS, CHRIS, PO BOX, SPOKANE, WA	1	\$ 500
CRYSTAL WATERS PUMP POWER & FI, PO BOX, PULLMAN, WA	2	\$ 1,000
HILAND CONSTRUCTION, S CONKLIN, GREENACRES, WA	1	\$ 500
NESBITT LANDSCAPING INC, N MARKET, SPOKANE, WA	1	\$ 500
PREMIER DEVELOPMENT, N FREYA, SPOKANE, WA	1	\$ 500
SCHUYLER, HARVEY, N SANDS RD, CHATTAROY, WA	1	\$ 500
UNITED PUMP COMPANY, PO BOX, HAYDEN LAKE, ID	1	\$ 500
WATSON, DEAN C, PO BOX, POMEROY, WA	1	\$ 500
Central Office		
GLOBAL DESIGN, 48TH ST SE, EVERETT, WA	1	\$ 400
MOSSANO CONSTRUCTION GEN, ILLAHEE RD NE, BREMERTON, WA	1	\$ 500
MR HANDYMAN OF SNOHOMISH CNTY, HARBOUR HTS PKWY, MUKILTEO, WA	1	\$ 500
PERFECT CLIMATE INC, 221ST PL NE, REDMOND, WA	3	\$ 1,500
SMITH, DEWAYNE T, PETTIGREW LN, MOSES LAKE, WA	1	\$ 500
SMITH, TRAVIS D, PETTIGREW LN, MOSES LAKE, WA	1	\$ 500
SUMMIT LOGISTICS INC, 76TH AVE S, KENT, WA	2	\$ 1,000
TELSERVICE NORTHWEST LLC, 172ND AVE SE, AUBURN, WA	3	\$ 3,000
WALKER, DANIEL R, MAY CREEK RD, GOLD BAR, WA	1	\$ 500
Violation - Hiring Uncertified Electrician		
Region 1 - North Puget Sound		
NETVERSANT-WASHINGTON INC, 1ST AVE S, SEATTLE, WA	2	\$ 200
SMITH FIRE SYSTEMS INC, 54TH AVE E, TACOMA, WA	1	\$ 100
Region 2 - King County		
MECHANICAL & CONTROL SERV INC, 16TH ST E, FIFE, WA	1	\$ 100
TACOMA COMMERCIAL MAINT INC, STEILACOOM BLVD SW, LAKEWOOD, WA	1	\$ 100
SUNSET ELECTRIC NW INC, PO BOX, POULSBO, WA	1	\$ 500
Region 4 - SW Washington		
CAPITOL ALARM INC, HARRISON AVE NW, OLYMPIA, WA	1	\$ 100
CASTLE ROCK ELECTRIC INC, CHICORY CT, NEWHALL, CA	4	\$ 400
COASTAL CONSTRUCTION GRP INC, S PARK ST, ABERDEEN, WA	1	\$ 100
E C COMPANY, PO BOX, PORTLAND, OR	1	\$ 100
WELL DONE ELECTRIC CO, SE ROYER RD, CLACKAMAS, OR	1	\$ 100
Central Office		
A C ELECTRIC SERVICE INC, W MEEKER ST, KENT, WA	2	\$ 700
FURNACE STORE LLC, CITATION RD NE, MOSES LAKE, WA	1	\$ 100
M T ELECTRIC INC, 456TH PL SE, NORTH BEND, WA	1	\$ 400
SAFECO ELECTRIC, SE 113TH, PORTLAND, OR	1	\$ 600
Violation - No Electrician Certificate		
Region 1 - North Puget Sound		
HEWSON, ALAN D, CALHOUN RD, MONROE, WA	1	\$ 250
HUNTER, ROGER TEDD, NORTH RD, BOTHELL, WA	1	\$ 250
MANIBUSAN, TOM, MT. BAKER HWY, BELLINGHAM, WA	1	\$ 250
RICHMOND, NATHANIEL MCCRAY, JASMINE PL, MOUNT VERNON, WA	1	\$ 250

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ROWLEY, MICHAEL L, N 30TH ST, MOUNT VERNON, WA	1	\$ 250
STEVENS, RUSTY, PO BOX, ARLINGTON, WA	1	\$ 250
WILBERT, STAN, HAPPY VALLEY RD, OAK HARBOR, WA	1	\$ 250
WYSOCKI, JEFF, 302ND DR SE, SULTAN, WA	1	\$ 250
Region 2 - King County		
AGUON, JOSEPH F, TUSCANY LANE, TUMWATER, WA	1	\$ 250
BANGERTER, TERRY D, SO. 4515 WEST, SALT LAKE CITY, UT	1	\$ 250
HADDAD, JOSEPH, NE 4TH PL, SAMMAMISH, WA	1	\$ 250
SCOBIE, DANIEL, 118TH ST SOUTH, TACOMA, WA	1	\$ 100
BURGETT, CHARLES, S THOMPSON, TACOMA, WA	2	\$ 500
Region 3 - Pierce & Kitsap County & Olympic Peninsula		
COX, CHARLES V, S THOMPSON AVE, TACOMA, WA	2	\$ 500
HARRISON, JUSTIN T, 56TH ST SE, SNOHOMISH, WA	1	\$ 250
KIEFFER, WILLIAM P, 159TH CT E, PUYALLUP, WA	1	\$ 250
MCNEIL, THOMAS RUSSELL, SCANDIA RD NW, POULSBORO, WA	1	\$ 250
RHINEHART, DUSTY LEON, 230TH AVE E, ORTING, WA	1	\$ 250
YORK, HAROLD E, N. 30TH, TACOMA, WA	1	\$ 250
Region 4 - SW Washington		
ARANDA, ARTURO, EMPALM, VALENCIA, CA	1	\$ 250
BARCKLEY, MICHAEL JORDON, TRAILS END DR SE, OLYMPIA, WA	1	\$ 250
DENNISTON, MICHAEL ALLEN, VICTORIA RD, CASTAIC, CA	1	\$ 250
DUNN, RICHARD, P O BOX, TUMWATER, WA	1	\$ 250
ENRIQUE, AVILA M, SE DON TOMAS CT, CLACKAMAS, OR	1	\$ 250
GAMBINO, VINCE S, 17TH ST E, PALMDALE, CA	1	\$ 250
JOHNSON, CHARLES L, NE 86TH AVE, PORTLAND, OR	1	\$ 250
MCFADDEN, SEAN P, ARBOR DR SE, LACEY, WA	1	\$ 250
NARAYAN, T J, NW 87TH ST, VANCOUVER, WA	1	\$ 250
O'CONNELL, DAVE, HWY 3 SW, PORT ORCHARD, WA	1	\$ 250
O'CONNELL, ROBIN L, ST. HWY 3 S.W., PORT ORCHARD, WA	1	\$ 250
PFÄHL, TIMOTHY M, N. 49TH STREET, SEATTLE, WA	1	\$ 250
RUSSELL, DAVE, SE 9TH, OLYMPIA, WA	1	\$ 250
SHORT, DAVID, 10TH STREET, BREMERTON, WA	1	\$ 250
SKOROHODOU, MICHAEL, N BUFFALO, PORTLAND, OR	1	\$ 250
WEBBER, KENNETH W, 110TH AVE EAST, PUYALLUP, WA	1	\$ 250
WILSON, CHRISTOPHER L, SE 29TH ST, SAMMAMISH, WA	1	\$ 250
Region 5 - Central Washington		
BOUFFIOU, GARY C, 25TH, KENNEWICK, WA	1	\$ 250
DODD, JAMES A, N. HAYE, NEWMAN LAKE, WA	1	\$ 250
Region 6 - Eastern Washington		
BYUS, CHRIS, PO BOX, SPOKANE, WA	1	\$ 250
MCRAE, JEFFREY J, S CONKLIN, GREENACRES, WA	1	\$ 250
NESBITT, PAUL R JR, N MARKET, SPOKANE, WA	1	\$ 250
SCHROEDER, CHARLES ALLAN, N LLOYD LN, MEAD, WA	1	\$ 250
SCHUYLER, HARVEY, N SANDS RD, CHATTAROY, WA	1	\$ 250
Central Office		
BATISHEV, LEE, NE 82ND AVE, VANCOUVER, WA	1	\$ 250
BREEDEN, STEVE, 48TH ST SE, EVERETT, WA	1	\$ 150
BURNELL, MATTHEW, NE 12 ST, VANCOUVER, WA	4	\$ 400
FISCO, RICK, S. LAKE STEVENS RD, LAKE STEVENS, WA	1	\$ 250
GREENBERG, BEN, 4TH DR SE, EVERETT, WA	1	\$ 250
HOGAN, JEFFREY W, YOST CIRCLE NE, MOSES LAKE, WA	3	\$ 750
JUDGE, BRANDON M., SE 136TH, NORTH BEND, WA	1	\$ 250
MERIDIAN CENTER ELECTRIC INC, 66TH AVE EAST, PUYALLUP, WA	2	\$ 500
OWENS, CHRIS, SW 129TH, BURIEN, WA	2	\$ 200
SHIPOVSKIY, PAVEL, 11TH AVE, MILTON, WA	1	\$ 250
SMITH, DEWAYNE T, PETTIGREW LN, MOSES LAKE, WA	1	\$ 250
SMITH, TRAVIS D, PETTIGREW LN, MOSES LAKE, WA	1	\$ 250
WRIGHT, GLENN MICHAEL, WRIGHT STREET, RATHDRUM, ID	1	\$ 250
Violation - No Electrical Permit		
Region 1 - North Puget Sound		
AGAPE ELECTRIC INC, 200TH ST SE, SNOHOMISH, WA	1	\$ 250
ALLIED SAFE & VAULT CO INC, W 2ND AVE, SPOKANE, WA	1	\$ 250
C & C OLYMPIC HEATING INC, PO BOX, LYNNWOOD, WA	1	\$ 250
C & R ELECTRIC INC, SW 150TH, SEATTLE, WA	1	\$ 250
DIMENSIONAL COMMUNICATIONS INC, ANDERSON RD, MOUNT VERNON, WA	1	\$ 250
EAGLE ELECTRIC CO, SHANGRI-LA DR, SEDRO WOOLLEY, WA	1	\$ 250
EAGLE GAS MECHANICAL INC, 228TH ST SW, EDMONDS, WA	1	\$ 250
EXCEL ELECTRIC & SERVICE INC, 138TH SE, BOTHELL, WA	1	\$ 250
FOSTER, MICHAIA, INGRAHAM RD, SNOHOMISH, WA	1	\$ 250
HOME THEATRE SPECIALTIES, ASH WAY, LYNNWOOD, WA	1	\$ 250
INTER-ISLAND ELECTRIC, PO BOX, FRIDAY HARBOR, WA	1	\$ 250
LAUIGUEURE, RONALD, 177TH AVE SE, MONROE, WA	1	\$ 250
LIGHTNING ELECTRIC INC, RATHBONE RD, FERNDALE, WA	1	\$ 250
MCDONALD, JAY, 18TH AVE NE, SEATTLE, WA	4	\$ 1,000
NETVERSANT-WASHINGTON INC, 1ST AVE S, SEATTLE, WA	1	\$ 250
POTELCO INC, 8TH ST E, SUMNER, WA	1	\$ 250
QUINTON, RONALD D, 120TH AVE NE, KIRKLAND, WA	1	\$ 250
ROYAL, FRANK, 117TH PL NE, MARYSVILLE, WA	1	\$ 50
SEVEN SISTERS INC, SUNSET PARK DR, SEDRO WOOLLEY, WA	1	\$ 250
SMITH FIRE SYSTEMS INC, 54TH AVE E, TACOMA, WA	1	\$ 250
SUPPRESSION SYSTEMS INC, PACIFIC HWY E, TACOMA, WA	1	\$ 250
WASHINGTON ENERGY SERVICES CO, THORNDYKE AVE W, SEATTLE, WA	1	\$ 250
WILCO, SE 170TH PL, NORTH BEND, WA	1	\$ 250
Region 2 - King County		
BUDGET WIRING INC, 42ND AVE S, TUKWILA, WA	1	\$ 250
CHALLENGE ELECTRIC LLC, AUBURN WAY N, AUBURN, WA	1	\$ 250

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CONVERGINT TECHNOLOGIES LLC, SHATTUCK AVE S, RENTON, WA	1	\$ 250
FITCH, ZANE, S RUSTIC RD, SEATTLE, WA	1	\$ 50
GATEWAY HEATING & A/C INC, AUBURN WAY N, AUBURN, WA	1	\$ 250
HEATH NW INC, S 96 ST, SEATTLE, WA	1	\$ 2,000
MADSEN ELECTRIC, S ORCHARD ST, TACOMA, WA	1	\$ 250
MAPLE CREST ELECTRIC INC, PO BOX, KENT, WA	1	\$ 1,000
MAXIMUM ELECTRIC, 265TH AVE SE, RAVENSDALE, WA	1	\$ 250
NEXUS IS INC, SW 16TH ST, RENTON, WA	1	\$ 250
ALARM WORKS N W, THE, PO BOX, TACOMA, WA	1	\$ 250
BOONE ELECTRIC CONST INC, 110TH AVE E, PUYALLUP, WA	1	\$ 250
BRINKS HOME SECURITY INC, WEST VALLEY HIWAY, KENT, WA	1	\$ 1,000
GROFF'S ELECTRIC HEAT INC, S UNION AVE, TACOMA, WA	1	\$ 250
POWER ELECTRICAL, 24TH AVE SW, FEDERAL WAY, WA	1	\$ 1,000
PUGET SOUND CONT & ELECT LLC, 54TH AVE NW, GIG HARBOR, WA	1	\$ 250
RHINEHART, DUSTY LEON, 230TH AVE E, ORTING, WA	1	\$ 250
SILENT WITNESS LLC, ORTING KAPOWSIN HWY E, GRAHAM, WA	2	\$ 1,000
THURMAN'S HEATING & AIR LLC, PO BOX, SPANAWAY, WA	1	\$ 250
TOTAL SIGN SERVICE, 224TH ST E, GRAHAM, WA	1	\$ 1,000
WALTHERS ELECTRIC, WHITMORE WY, BUCKLEY, WA	1	\$ 1,000
WILDCAT ELECTRICAL SERVICE INC, 1ST ST, STEILACOOM, WA	1	\$ 250
Region 4 - SW Washington		
ALL PHASE HTG & REFRIGERATION, NE EIGHTH AVE, VANCOUVER, WA	1	\$ 250
BARTLETT ELECTRIC, SISKIYOU LP SE, OLYMPIA, WA	1	\$ 250
CAPITOL ALARM INC, HARRISON AVE NW, OLYMPIA, WA	1	\$ 250
CARLSONS HEATING & A/C INC, S PACIFIC AVE, KELSO, WA	1	\$ 250
FELTONS HEATING & COOLING INC, CANADY ROAD, VADER, WA	1	\$ 250
METCO INC, MERIDIAN E, PUYALLUP, WA	1	\$ 1,000
PIONEER ELECTRICAL CONTRS INC, E 18TH ST, VANCOUVER, WA	1	\$ 250
SAFECO ELECTRIC, SE 113TH, PORTLAND, OR	1	\$ 250
TAURUS INDUSTRIES INC, 73RD AVE SE, OLYMPIA, WA	1	\$ 250
WELL DONE ELECTRIC CO, SE ROYER RD, CLACKAMAS, OR	1	\$ 250
Region 5 - Central Washington		
ESSCO ELECTRIC INC, PO BOX, PASCO, WA	1	\$ 250
FARMERS ELECTRIC, E HEMLOCK, OTHELLO, WA	2	\$ 2,000
J & M ELECTRIC INC, S LASCO LANE, MOSES LAKE, WA	1	\$ 250
KURZ, ALLAN L, S TWEEDT CT, KENNEWICK, WA	1	\$ 50
LIERMAN ELECTRIC, PO BOX, CONNELL, WA	1	\$ 250
MASTER ELECTRIC, PARK PLACE, PASCO, WA	1	\$ 250
POWER CITY ELECTRIC INC, PO BOX, PASCO, WA	1	\$ 250
TED'S PLUMBING, NE 237TH AVE, BATTLE GROUND, WA	1	\$ 1,750
TNT AIR CONDNG & HEATING INC, W KENNEWICK AVE, KENNEWICK, WA	1	\$ 250
TRINITY CONSTRUCTION INC, COLLINS, WEST RICHLAND, WA	1	\$ 1,000
VANCE, CAROL, W 6TH AVE, KENNEWICK, WA	1	\$ 250
WILSON ELECTRIC INC, ELGIN RD NE, MOSES LAKE, WA	1	\$ 250
YARBROUGH ELECTRIC INC, DEFIANCE ST SE, OLYMPIA, WA	1	\$ 250
Region 6 - Eastern Washington		
ALADDIN ELECTRIC INC, PO BOX, SPOKANE, WA	1	\$ 250
AUDIO VIDEO INOVATIONS, S GLENBROOK CT, GREENACRES, WA	1	\$ 250
B & D ENTERPRISES, PO BOX, POMEROY, WA	1	\$ 250
CRITICAL POWER EXCHANGE, N 4TH STREET, COEUR D'ALENE, ID	1	\$ 250
FOGLE PUMP & SUPPLY INC, W 5TH, COLVILLE, WA	1	\$ 250
RINGO'S ELECTRIC, E SPRAGUE, SPOKANE, WA	1	\$ 250
UNITED PUMP COMPANY, PO BOX, HAYDEN LAKE, ID	1	\$ 250
VALLEY ELECTRIC SERVICE INC, PO BOX, SPOKANE, WA	1	\$ 250
Central Office		
AAA ELECTRIC CO, PO BOX, EPHRATA, WA	1	\$ 250
BEACH ELECTRIC LLC, NW 45TH ST, SEATTLE, WA	1	\$ 250
BEERS, CAROL, 123 AVE NE, KIRKLAND, WA	1	\$ 50
BROWNE, KARL, PO BOX, BLACK DIAMOND, WA	1	\$ 250
CDI CUSTOM DESIGN INC, KENTUCKY ST, BELLINGHAM, WA	1	\$ 250
COMPASS MECHANICAL LLC, 227TH AVE SE, MONROE, WA	1	\$ 250
E & E ELECTRIC INC, 35TH AVE W, BRIER, WA	1	\$ 250
EAGLE SIGNS LLC, W WASHINGTON AVE, YAKIMA, WA	1	\$ 250
EURO-DESIGN INC, PO BOX, MOSES LAKE, WA	2	\$ 500
GARVIN ENTERPRISES INC, JIM CREEK RD, ARLINGTON, WA	4	\$ 1,000
HOME ELECTRONICS INC, 87TH AVE CT E, PUYALLUP, WA	4	\$ 500
HOME THEATRE SPECIALTIES, ASH WAY, LYNNWOOD, WA	1	\$ 250
IAPRYNTSEV, SERGUE, BLUE GOOSE RD NE, MOSES LAKE, WA	1	\$ 50
KHAN AIR LLC, NW 56TH ST, SEATTLE, WA	1	\$ 250
MAXIMUM ELECTRIC INC, 265TH AVE SE, RAVENSDALE, WA	1	\$ 2,000
MCCORNACK CONSTRUCTION INC, RIDGEVIEW LANE, MOSES LAKE, WA	1	\$ 250
METALSMITHS INC, 220TH ST SW, MOUNTLAKE TERRAC, WA	1	\$ 250
NORTH STAR ELECTRIC INC, S JACKSON ST, SEATTLE, WA	1	\$ 1,000
NORTHWEST ELECTRICAL & SER INC, 29TH ST E, EDGEWOOD, WA	1	\$ 1,000
POWER ELECTRIC, 11TH AVE NE, MARYSVILLE, WA	1	\$ 750
PROGRESSIVE AIR SYSTEMS INC, INTERURBAN BLVD, SNOHOMISH, WA	1	\$ 1,000
REC RESIDENTIAL ELECTRIC INC, PO BOX, BLACK DIAMOND, WA	1	\$ 250
ROB'S ELECTRIC INC, 103RD AVE SE, EVERETT, WA	1	\$ 250
SIEMENS BLDG TECHNOLOGIES INC, NE 20TH ST, BELLEVUE, WA	1	\$ 250
SORENSEN, CHAD, WEST AXTON RD, BELLINGHAM, WA	1	\$ 50
TATRO, DEAN, PARK CREEK RD, ELLENSBURG, WA	1	\$ 50
ULYANCHUK, SERGEY, A WESTOVER BLVD, MOSES LAKE, WA	1	\$ 50
VAST ELECT TECHNOLOGIES INC, NE 68TH ST, REDMOND, WA	2	\$ 2,000
WHITE SECURITY SYSTEMS INC, HIWAY 99, LYNNWOOD, WA	1	\$ 750